PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

 Type
 : OP
 Printed On
 : 23/11/2021 5:11 PM

Ref. Dr : MediWheel

Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
HAEMATOLOGY			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Electrical Impedance)	12.2	g/dL	12.5 - 16.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	38.0	%	37 - 47
RBC Count (EDTA Blood/Impedance Variation)	4.74	mill/cu.mm	4.2 - 5.4
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	80.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	25.7	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	32.1	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	17.1	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	47.88	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	8070	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	54.35	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	30.99	%	20 - 45



 PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

 Type
 : OP
 Printed On
 : 23/11/2021 5:11 PM

Ref. Dr : MediWheel

Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	6.14	%	01 - 06
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	8.40	%	02 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	0.12	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	4.39	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.50	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.50	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.68	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.01	10^3 / μl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	405.2	$10^3 / \mu l$	150 - 450
MPV (EDTA Blood/Derived from Impedance)	8.17	fL	8.0 - 13.3
PCT (EDTA Blood/Automated Blood cell Counter)	0.33	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood/Manual Westergren Method)	34	mm/hr	0 - 20



 PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

 Type
 : OP
 Printed On
 : 23/11/2021 5:11 PM

Ref. Dr : MediWheel

Investigation	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.3	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.2	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.10	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	8.0	g/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.0	g/dL	3.5 - 5.0
Globulin (Serum/ <i>Derived</i>)	4.0	g/dL	2.3 - 3.5
A : G Ratio (Serum/ <i>Derived</i>)	1.0		1.1 - 2.4
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC without P5P)	16	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC without P5P)	17	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	141	U/L	42 - 98
GGT(Gamma Glutamyl Transpeptidase) (Serum/Modified IFCC)	20	U/L	< 38



Register On : 22/11/2021 9:10 AM PID No. : MED110726156 : 421088942 Collection On : 22/11/2021 9:48 AM SID No. Age / Sex : 46 Year(s) / Female Report On : 23/11/2021 1:16 PM **Type** : OP **Printed On**

Ref. Dr : MediWheel

Investigation	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Lipid Profile</u>			
Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase)	164	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	91	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500

: 23/11/2021 5:11 PM

INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the õusualö circulating level of triglycerides during most part of the day.

HDL Cholesterol (Serum/Immunoinhibition)	45	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 50 - 59 High Risk: < 50
LDL Cholesterol (Serum/Calculated)	100.8	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	18.2	mg/dL	< 30



PID No. : MED110726156 Register On : 22/11/2021 9:10 AM : 421088942 SID No. Collection On : 22/11/2021 9:48 AM Age / Sex : 46 Year(s) / Female Report On : 23/11/2021 1:16 PM **Type** : OP

Printed On

: MediWheel Ref. Dr

Investigation <u>Observed</u> **Unit Biological** Reference Interval **Value** Non HDL Cholesterol 119.0 mg/dL Optimal: < 130 Above Optimal: 130 - 159 (Serum/Calculated) Borderline High: 160 - 189

: 23/11/2021 5:11 PM

High: 190 - 219 Very High: >= 220

INTERPRETATION: 1. Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol. 2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

Total Cholesterol/HDL Cholesterol Ratio 3.6 Optimal: < 3.3Low Risk: 3.4 - 4.4 (Serum/Calculated) Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0Triglyceride/HDL Cholesterol Ratio 2 Optimal: < 2.5Mild to moderate risk: 2.5 - 5.0 (TG/HDL) High Risk: > 5.0(Serum/Calculated)

Optimal: 0.5 - 3.0 LDL/HDL Cholesterol Ratio 2.2 Borderline: 3.1 - 6.0 (Serum/Calculated)

High Risk: > 6.0

M D Pathology Consultant Pathologist KMC No :104646 APPROVED BY

 PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

 Type
 : OP
 Printed On
 : 23/11/2021 5:11 PM

Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/ <i>HPLC</i>)	6.51	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5

INTERPRETATION: If Diabetes - Good control: 6.1 - 7.0 %, Fair control: 7.1 - 8.0 %, Poor control >= 8.1 %

Estimated Average Glucose 140.14 mg/dL

(Whole Blood)

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency,

hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbAlC values.

Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbAlc.

Remark: Test done at Central Lab Bangalore

DR SRIJANA RAO S P
MD Pathology
Consultant Fathologist
KMC No :104646
APPROVED BY

 PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

Printed On

Type : OP

Ref. Dr : MediWheel

Investigation	Observed Unit	<u>Biological</u>
	Value	Reference Interval

: 23/11/2021 5:11 PM

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.40 ng/ml 0.7 - 2.04

(Serum/Chemiluminescent Immunometric Assay (CLIA))

INTERPRETATION:

Comment:

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Tyroxine) - Total 11.84 µg/dl 4.2 - 12.0

 $(Serum/{\it Chemiluminescent\ Immunometric\ Assay}$

(CLIA))

INTERPRETATION:

Comment:

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

TSH (Thyroid Stimulating Hormone) 4.32 µIU/mL 0.35 - 5.50

(Serum/Chemiluminescent Immunometric Assay

(CLIA))

INTERPRETATION:

Reference range for cord blood - upto 20

1 st trimester: 0.1-2.5 2 nd trimester 0.2-3.0 3 rd trimester : 0.3-3.0

(Indian Thyroid Society Guidelines)

Comment:

- 1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.
- 2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM. The variation can be of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations.
- 3. Values & amplt 0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.

K. R. Mukilarasi M.D.,(Path)

Consultant Pathologist

TNMC Reg.No: 116296

VERIFIED BY

Dr. Ramesh Dayanand Kinha Chief Pathologist Reg No : 442072

 PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

 Type
 : OP
 Printed On
 : 23/11/2021 5:11 PM

Ref. Dr : MediWheel

<u>Investigation</u>	<u>Observed</u> <u>l</u>	<u>Unit</u>	<u>Biological</u>
	Value		Reference Interval

CLINICAL PATHOLOGY

PHYSICAL EXAMINATION

Pale Yellow

(Urine)

Volume 30 mL

(Urine)

Appearance Clear Clear

(Urine)

CHEMICAL EXAMINATION

pH 5.5	1.6 -	. 8	3.1	C)
--------	-------	-----	-----	---	---

(Urine)

Specific Gravity 1.015 1.003 - 1.030

(Urine)

Protein Negative Negative

(Urine)

Glucose Negative Negative

(Urine)

Ketones Negative Negative

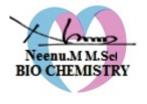
(Urine)

Leukocytes Negative Negative

(Urine)

Nitrite Negative Negative

(Urine)



VERIFIED BY

DR SRIJANA RAO S P
M D Pathology
Consultant Pathologist
KMC No :104646

 PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

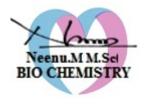
 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

 Type
 : OP
 Printed On
 : 23/11/2021 5:11 PM

Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Bilirubin (Urine)	Negative		Negative
Blood (Urine)	Negative		Negative
Urobilinogen (Urine)	0.1	mg/dL	0.1 - 1.0
<u>Urine Microscopy Pictures</u>			
Pus Cells (Urine)	3-4	/hpf	0 - 2
Epithelial Cells (Urine)	2-3	/hpf	0 - 2
RBCs (Urine)	Nil	/hpf	0 - 1
Others (Urine)	Nil		Nil
Casts (Urine)	Nil		0 - 1
Crystals (Urine)	Nil		NIL
Bacteria	Nil		



VERIFIED BY

DR SRIJANA RAO S P
M D Pathology
Consultant Pathologist
KMC No : 104646

 PID No.
 : MED110726156
 Register On
 : 22/11/2021 9:10 AM

 SID No.
 : 421088942
 Collection On
 : 22/11/2021 9:48 AM

 Age / Sex
 : 46 Year(s) / Female
 Report On
 : 23/11/2021 1:16 PM

Type : OP

Ref. Dr : MediWheel

Printed On : 23/11/2021 5:11 PM

InvestigationObservedUnitBiologicalValueReference Interval

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING 'B' 'Positive'

(EDTA Blood/Agglutination)



VERIFIED BY

DR SRIJANA RAO S P
M D Pathology
Consultant Pathologist
KMC No :104646

PID No. : MED110726156 Register On : 22/11/2021 9:10 AM : 421088942 Collection On : 22/11/2021 9:48 AM SID No. Age / Sex : 46 Year(s) / Female Report On 23/11/2021 1:16 PM : OP **Type**

Printed On

Ref. Dr : MediWheel

Investigation	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
Glucose Fasting (FBS) (Plasma - F/GOD- POD)	97	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

: 23/11/2021 5:11 PM

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Urine Glucose - Fasting (Urine - F/GOD - POD)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/GOD - POD)	98	mg/dL	70 - 140

(Plasma - PP/GOD - POD)

INTERPRETATION:

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti- diabetic medication during treatment for Diabetes.

Blood Urea Nitrogen (BUN)	12	mg/dL	7.0 - 21
(Serum/Urease-GLDH)			
Creatinine	0.7	mg/dL	0.6 - 1.1
(Serum/Modified Laffe)			

(Serum/Modified Jaffe)

INTERPRETATION: Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin, cefazolin, ACE inhibitors, angiotensin II receptor antagonists, N-acetylcyteine, chemotherapeutic agent such as flucytosine etc.

5.2 2.6 - 6.0Uric Acid mg/dL

(Serum/Uricase/Peroxidase)



-- End of Report --